

ABSTRACT OF THE DISCLOSURE

A measuring system for structure-borne noise measurement of machine elements in machine housings. The measuring system is fixed to the machine housing via a lubrication hold opening. A mounting pin with a continuous bore hole. A housing receives a printed circuit board provided with electronic components for signal evaluation. A vibration snesor and vibration sensor housing rotationally mounted in relation to the mounting pin when the mounting pin is screwed into the lubrication hold opening. The vibration sensor housing is rotationally fixed to the machine housing in a non-positive fit via a metal bushing when the mounting pin is screwed in an end position. The vibration sensor is located adjacent to the metal bushing whereby structure-borne noise is directly transferred from the machine housing to the vibration sensor via the metal bushing.